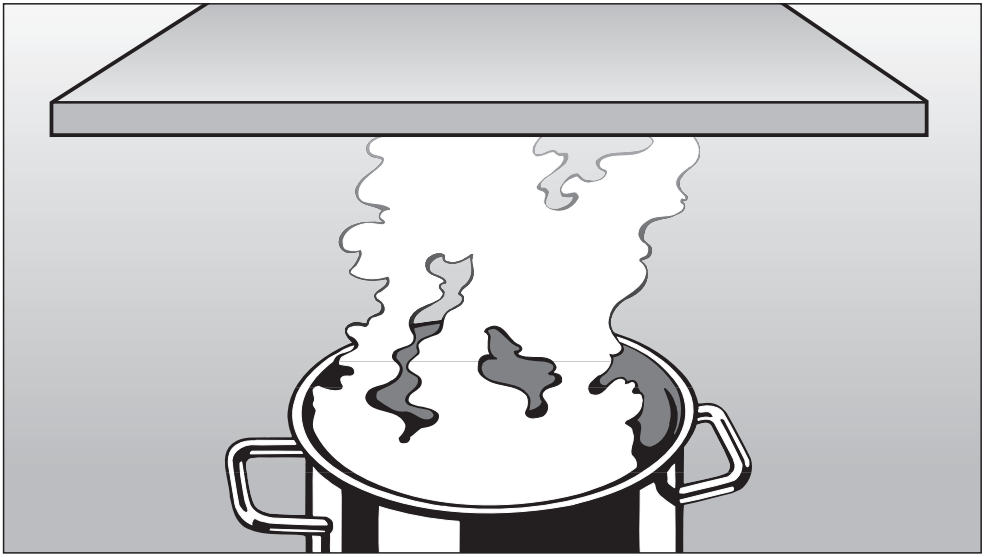
Miele

Operating and installation instructions



Cooker hood
DA 422-4, DA 422-4 EXT

To avoid the risk of accidents or damage to this appliance it is **essential** to read these instructions before it is installed and used for the first time.

en - GB, AU, NZ

M.-Nr. 07 259 600

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Disposal of the packing material

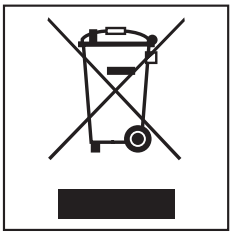
The transport and protective packing has been selected from materials which are environmentally friendly for disposal, and can normally be recycled.

Packaging e.g. cling film, polystyrene and plastic wrappings must be kept out of the reach of babies and young children. Danger of suffocation!

Dispose of or recycle all packaging materials safely as soon as possible.

Disposal of your old appliance

Electrical and electronic appliances often contain materials which, if handled or disposed of incorrectly, could be potentially hazardous to human health and to the environment. They are, however, essential for the correct functioning of your appliance. Please do not therefore dispose of it with your household waste.



Please dispose of it at your local community waste collection / recycling centre or contact your dealer for advice. Ensure that it presents no danger to children while being stored for disposal.

It should be unplugged or disconnected from the mains electricity supply by a competent person.

This appliance complies with all relevant legal safety requirements. Inappropriate use can, however, lead to personal injury and damage to property.

To avoid the risk of accidents and damage to the appliance, please read these instructions carefully before using it for the first time. They contain important information on the safety, installation, use and maintenance of the appliance.

Keep these instructions in a safe place and ensure that all users are familiar with the contents. Pass them on to any future owner of the appliance.

Correct application

▶ This appliance is intended for domestic use only.
Any other usage is at the owner's risk and could be dangerous. The manufacturer cannot be held liable for damage resulting from incorrect or improper use or operation.

▶ This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they are supervised whilst using it or have been given instruction concerning its use by a person responsible for their safety.

Safety with children

▶ This appliance is only intended for use by adults who have read these instructions. This appliance is not a toy! To avoid the risk of injury, keep children well away and do not allow them to play with it or to use the controls. They will not understand the potential dangers posed by it. They should be supervised whenever you are working in the kitchen.

▶ Older children may use the cooker hood only when its operation has been clearly explained to them and they are able to use it safely, recognising the dangers of misuse.

▶ Please be aware that on cooker hoods with halogen lighting, the lamps will get very hot during use and remain hot for some time after switching off. To safeguard against burning, keep children well away from the lamps at all times.

Technical safety

▶ Before installation, check the cooker hood for visible signs of damage. Under no circumstances should you use a damaged appliance. A damaged appliance is dangerous.

▶ Before connecting the appliance to the mains supply, make sure that the voltage and frequency details given on the data plate correspond with the on-site electricity supply, otherwise the appliance could be damaged. Consult a qualified electrician if in any doubt.

▶ The electrical safety of this appliance can only be guaranteed when continuity is complete between the appliance and an effective earthing system which complies with current local and national safety regulations. It is most important that this basic safety requirement is present and tested regularly, and where there is any doubt, the household wiring system should be inspected by a qualified electrician. The manufacturer cannot be held liable for the consequences of an inadequate earthing system (e.g. electric shock).

▶ For safety reasons, this appliance may only be used when it has been fully installed.

▶ Only open the housing as described in the instructions given in the installation sheet and in the Cleaning and care section of this booklet. Under no circumstances should any other parts of the housing be opened. Tampering with electrical connections or components and mechanical parts is highly dangerous to the user, and can cause operational faults.

▶ Installation, maintenance and repairs may only be carried out by a Miele authorised person in accordance with current national and local safety regulations.
Repairs and other work by unqualified persons could be dangerous. The manufacturer cannot be held liable for unauthorised work.

▶ Faulty components must only be replaced by genuine Miele original parts. The manufacturer can only guarantee the safety of the appliance when Miele replacement parts are used.

▶ During installation, maintenance and repair work, the appliance must be disconnected from the mains electricity supply. It is only completely isolated from the electricity supply when:

– it is switched off at the isolator, or
– the screw-out fuse is removed (in countries where this is applicable), or
– the mains fuse is disconnected, or it is switched off at the wall wocket and the plug withdrawn, or
– the fuse to the fused spur connection is withdrawn.

▶ Do not connect the appliance to the mains electricity supply by a multi-socket unit or an extension lead. These do not guarantee the required safety of the appliance (e.g. danger of overheating).

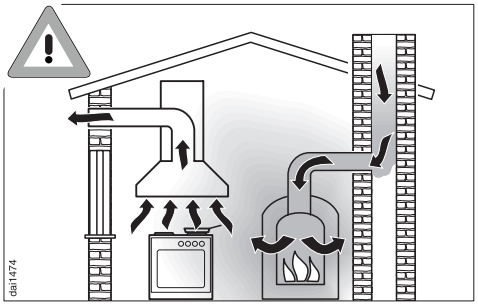
▶ For appliances with an external fan motor fitted (...EXT models) the connection of the two units must be made using the connection cable and the plug connectors.
These models may only be combined with a Miele external motor.

▶ This appliance may only be used in mobile installations such as ships, caravans, aircraft etc. if a risk assessment of the installation has been carried out by a suitably qualified engineer.

▶ In areas which may be subject to infestation by cockroaches or other vermin, pay particular attention to keeping the appliance and its surroundings in a clean condition at all times. Any damage which may be caused by cockroaches or other vermin will not be covered by the guarantee.

Using at the same time as other heating appliances that depend on the air from the room

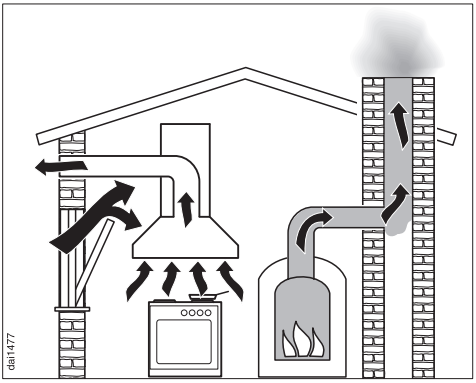
Warning - danger of toxic fumes



▶ Great care should be taken when using the cooker hood at the same time and in the same room or area of the house as another heating appliance which depends on the air in the room. Such appliances include gas, oil, wood or coal-fired boilers and heaters, continuous flow or other water heaters, gas hobs, cookers or ovens which draw air in from the room and duct exhaust gases out through a chimney or extraction ducting.
When used in extraction mode, with or without an external motor fitted, the appliance draws air in from the room in which it is installed **and** from neighbouring rooms.
If there is insufficient air, an underpressure will occur. The heating appliance may be starved of oxygen, impairing combustion.

Harmful gases could be drawn out of the chimney or extraction ducting back into the room, with potentially fatal consequences.

In order to ensure safe operation, and to prevent gases given off by the heating appliances from being drawn back into the room when the cooker hood and the heater are in operation simultaneously, an underpressure of 0.04 mbar (4 pa) is the maximum permissible in the room.



Ventilation can be maintained by air inlets which must not be blocked, in windows, doors and outside wall vents, or by other technical measures, such as ensuring that the cooker hood can only be switched on when the heating appliance is switched off or vice versa. A ventilation brick alone is not generally sufficient to ensure safe ventilation.

⚠ The overall ventilation condition of the dwelling must be taken into account. If in any doubt, the advice of a competent builder or, for gas, a qualified gas fitter (Corgi registered in the UK) must be sought.

One of the following technical measures may be necessary to ensure safe operation.

– If the only way of ensuring adequate ventilation is via an open window, a window contact switch should be fitted to ensure that the cooker hood can only operate when the window is opened sufficiently. A window contact switch kit is available from good builders' merchants.
  Take care when ventilating the room through an open window that ventilation is not impaired by a closed blind or curtain.

– The cooker hood can be set up to automatically switch on an air intake fan or open a motorised inlet flap when it is switched on.

– The cooker hood can be set up to automatically switch off a heating appliance which also depends on the air from the room when it is switched on.

The Miele DSM 400 control module offers the possibility of combining other components with the cooker hood (see "Operation with Control module DSM 400").
It is available to purchase as an optional extra.

If in any doubt, the advice of a qualified builder, gas fitter (Corgi registered in the UK) or electrician must be sought.

Correct use

▶ Never use an open flame beneath the cooker hood. To avoid the danger of fire, do not flambé or grill over an open flame.
When switched on, the cooker hood could draw flames into the filter. Fat particles drawn into the cooker hood present a fire hazard.

▶ When using the cooker hood over a gas hob, ensure that any burners in use are always covered by a pan. Switch the cooking zone off when a pan is removed, even for a short time.
Regulate the flame so that it does not burn up the sides of the pan.
Do not allow the pans to overheat excessively (e.g. when using a wok). The cooker hood can become damaged when exposed to excessive heat.

▶ Always switch the cooker hood on when a cooking zone is in use, otherwise condensation may collect in the hood, which could cause corrosion.

▶ When cooking with oil or fat, chip pans and deep fat fryers etc, do not leave the pans unattended. Never leave an open grill unattended when grilling. Overheated oil and fat can ignite and could set the cooker hood on fire.

▶ Do not use the cooker hood without the filters in place. This way you will avoid the risk of grease and dirt getting into the appliance and hindering its smooth operation.

▶ The filters should be regularly cleaned or changed as appropriate. Saturated filters are a fire hazard. See "Cleaning and care".

▶ Do not use a steam-cleaner to clean this appliance. Pressurised steam could reach the electrical components and cause a short circuit.

Correct installation

▶ Refer to the cooker or hob manufacturer's instructions as to whether a cooker hood may be operated above the cooker/hob.

▶ The minimum safety distances between the top of the cooker or hob and the bottom of the cooker hood given in the "Appliance dimensions" section of this booklet must be maintained, unless the hob manufacturer states that a greater safety distance is required.

If more than one cooking appliance is fitted beneath the cooker hood, and they have different minimum safety distances to the cooker hood, select the greater distance.

▶ Safety regulations prohibit the fitting of a cooker hood over solid fuel stoves.

▶ All ducting, pipework and fittings must be of non-flammable material. These can be obtained from the Miele Spare Parts department or from builders' merchants.

▶ The appliance must not be connected to a chimney or vent flue which is in use. Neither should it be connected to ducting which ventilates rooms with fireplaces.

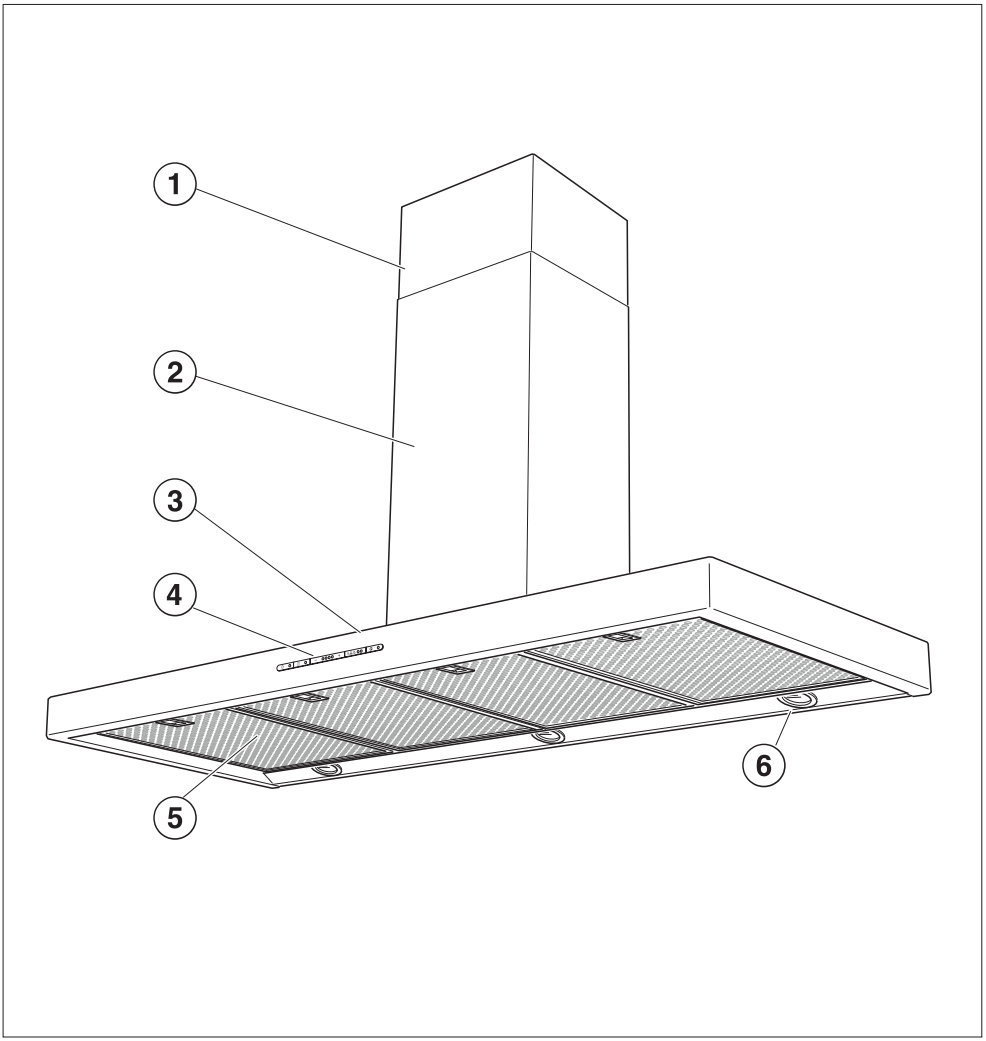
▶ If exhaust air is to be extracted into a chimney or ventilation duct no longer used for other purposes, seek professional advice.

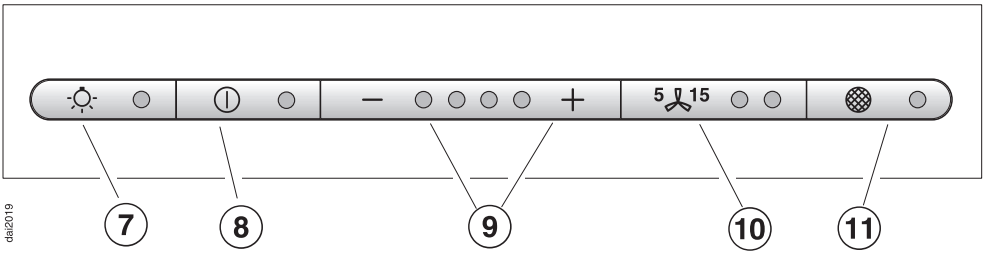
Accessories

▶ Only use genuine Miele spare parts and accessories with this appliance. If spare parts or accessories from other manufacturers are used, this will invalidate the guarantee, and Miele cannot accept liability.

The manufacturer cannot be held liable for damage caused by non-compliance with these Warning and Safety instructions.

Guide to the appliance





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① **Telescopic extension piece**

② **Tower**

③ **Canopy**

④ **Control panel**

⑤ **Grease filters**

⑥ **Hob lighting**

⑦ **Touch control for hob lighting**

This control switches the lighting on and off, and is also a dimmer switch.

⑧ **On/Off touch control for the fan**

⑨ **Touch controls to select the fan power level**

⑩ **Touch control for the run-on option**

The fan can be set to continue running, and to switch off automatically after either 5 or 15 minutes.

⑪ **Touch fontrol for the grease filters**

The indicator lamp for the grease filters lights up when the grease filters need to be cleaned.

The touch control is used to reset the operating hours counter every time the grease filters are cleaned (see "Cleaning and care").

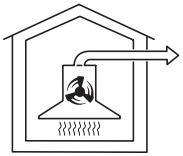
It can also be used to check and alter the operating hours counter.

For information about using the appliance, see "Operation".

Modes of operation

The cooker hood works with

. . . air extraction:



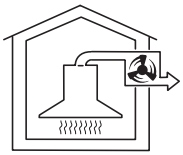
The air is drawn in and cleaned by the grease filters and directed outside.

If the on-site ventilation system does not have a **non-return flap**, the non-return flap supplied must be fitted.

The non-return flap is designed to prevent the exchange of room and outside air taking place.
When the cooker hood is switched on, the non-return flap opens for the cooking vapours to be blown directly outside.

. . . an external motor:

(...EXT models only)



The ...EXT models are designed to be connected to an external motor located outside the room.

The external motor is connected to the cooker hood by means of a control cable, and is operated by the controls on the cooker hood.

To switch the fan on

■ Press the On/Off control.

The fan runs at power level "II".
The indicator lamp will come on.

If the cooker hood has been connected to a window contact switch via the DSM 400 control module, then the fan cannot be switched on if the window is shut. The indicator lamp will flash.

To select a power level

■ Use the **–** / **+** controls to select the power level required.

+ control = higher setting
– control = lower setting

Depending on the intensity of cooking vapours, levels "I" to "III" (green indicator lamps) are usually sufficient for normal cooking.

Intensive setting

When frying or cooking food with a strong aroma, you may wish to select the Intensive setting, level IV (yellow indicator lamp) for a short period.

Automatic switch-off of the Intensive setting

You can set the Intensive setting so that it only runs for 10 minutes before reverting automatically to level III.

■ To set this option, both the fan and the hob lighting must be switched off.

■ Press the run-on option control for approximately 10 seconds. The first fan setting indicator will light up.

■ Then press in turn,

– the hob lighting control,

– the **–** control, and

– the hob lighting control again.

The indicator lamps for fan power levels I and IV will flash if the automatic switch-off for the Intensive setting is not activated.

- Press the **+** control to activate the automatic switch-off.
  The indicator lamps for fan power levels I and IV will now light up constantly.

  Press the **–** control to deactivate the automatic switch-off function.

- Press the run-on option control to confirm your selection.

If you do not confirm your selection within 4 minutes, the cooker hood will automatically revert to the original setting.

Run-on option

It is advisable to leave the fan running for a few minutes after cooking has finished to neutralise any lingering odours in the air.

The fan can be set to switch off automatically after either 5 or 15 minutes:

- After cooking has finished, press the run-on option control whilst the fan is still running.

– Press once = The fan will switch off after 5 minutes (left-hand indicator lamp).

– Press twice = The fan will switch off after 15 minutes (right-hand indicator lamp).

To switch off the run-on option, press the run-on option control again. The appliance will then not switch off automatically.

To switch the fan off

- Press the On/Off control to switch the fan off.

The indicator lamp will go out.

To switch the hob lighting on

The hob lighting can be switched on and off independently of the fan.

- **Briefly** press the hob lighting control to switch on the hob lighting.

The indicator lamp will come on.

The lighting will switch on at maximum brightness.

To dim the hob lighting

The brightness of the lighting can be adjusted.

- With the lighting switched on, press and hold the hob lighting control in. The brightness will gradually dim until you release the control.
- Press the control in again to increase the brightness to the level required, and then release it.

If you keep the control pressed in, the light will continually change between bright and dim.

To switch the hob lighting off

- **Briefly** press the hob lighting control to switch the lighting off.

The indicator lamp will go out.

Safety cut-out

Should the cooker hood be left on, the fan will switch off automatically after 10 hours. The lighting will remain on.

- Pressing the On/Off control will switch the fan back on again.

Filter operating hours counter

The number of hours the appliance has been in operation is stored in memory.

The operating hours counter tells you when the grease filters need to be cleaned.

Resetting the operating hours counter for the grease filters

After 30 hours of operation (or another time if the operating hours counter has been altered), the grease filter indicator lamp will light up. The grease filters must then be cleaned.

Afterwards, the filter operating hours counter must be reset.

- To do this, press and hold the grease filter control in for approximately 3 seconds while the fan is switched on.

The indicator lamp for the control will go out.

Reading the filter operating hours counter

To check the percentage of time set already used:

- Press the On/Off control to switch the fan on.

- Press and hold the grease filter control.

One or more of the indicator lamps for the **–** / **+** controls will flash.

The number of flashing lamps shows the percentage of the operating time which has already been used up.

1 lamp = 25 %
2 lamps = 50 %
3 lamps = 75 %
4 lamps = 100 %

The number of operating hours used remains in the memory, even when the appliance is switched off or there is a power cut.

Altering the filter operating hours counter

The filter operating hours counter is set at 30 hours. This can be lengthened or shortened to suit the type of cooking you do. You can choose 20, 30, 40 or 50 hours

– Select a short time if you roast or fry a lot.

– If you use very little fat for cooking, select a longer time.

– If you only cook occasionally we recommend that you still select a short time, because grease which has built up gradually over a long period of time will harden on the grease filters and make cleaning more difficult.

■ Press the On/Off control to switch the fan off.

■ Press the run-on option control and the grease filter control at the same time.

The indicator lamp for the grease filter control and one of the **–** / **+** indicator lamps will flash.

The **–** / **+** indicator lamps show the time which has been set:
1st lamp from the left = 20 hours
2nd lamp from the left = 30 hours
3rd lamp from the left = 40 hours
4th lamp from the left = 50 hours

■ Use the **–** / **+** controls to select the desired time.

■ Confirm the selection by pressing the grease filter control.

All the indicator lamps will go out.

If you do not confirm your selection within 4 minutes, the cooker hood will automatically revert to the original setting.

Before any cleaning or maintenance work is carried out, disconnect the cooker hood from the mains supply. Ensure that:
– it is switched off at the wall socket and the plug withdrawn, or
– the fuse from the fused spur connection unit is withdrawn, or
– the mains fuse is withdrawn, or
– the screw-out fuse is removed (in countries where this is applicable).

A range of Miele branded cleaning and conditioning agents are available to order through your Miele Dealer / Chartered Agent, the Miele Spare Parts Department, or via the internet on www.miele-shop.com.

Housing

General notes

The surfaces and controls are susceptible to scratches and abrasions. Please observe the following cleaning instructions.

- All external surfaces and controls can be cleaned using a Miele E-Cloth, or with warm water and a small amount of washing-up liquid applied with a well wrung-out soft sponge or cloth.
- Wipe the surfaces dry using a soft cloth.

Do not use too much water when cleaning the controls. Water could penetrate into the electronics and cause damage.

Do not use:

– cleaning agents containing soda, acids, chlorides or solvents,

– abrasive cleaning agents e.g. powder cleaners or cream cleaners, and abrasive sponges, e.g. pot scourers or sponges which have been previously used with abrasive cleaning agents. These will damage the surface material.

Important for appliances with stainless steel housing

(This infomation does not apply to the controls).

Stainless steel surfaces can be cleaned using the Miele E-Cloth, or with a proprietary non-abrasive cleaning agent designed specifically for use on stainless steel.

To help prevent re-soiling, a proprietary conditioning agent for stainless steel can also be used. Follow the manufacturer's instructions, and apply sparingly with an even pressure in the direction of the "grain".

Important for appliances with lacquered housing

(special order finish)

It is very difficult to clean this type of surface without causing minor marks to the surface material. This can become particularly noticeable with darker colours and if there is halogen lighting in the kitchen.

Controls

The controls may suffer discolouration or damage if soiling is left on them for too long. Remove soiling straight away.

Observe the General notes on cleaning earlier in this section.

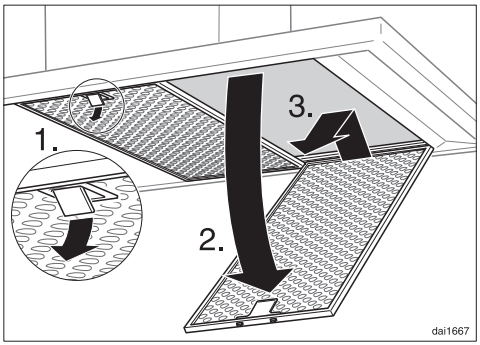
Do not use stainless steel cleaning agents on the controls.

Grease filters

The re-usable metal grease filters in the appliance remove solid particles (grease, dust, etc.) from the kitchen vapours, preventing soiling of the cooker hood.

To avoid a build-up of grease, the grease filters should be cleaned regularly (at least every 3-4 weeks), but always clean immediately the grease filter indicator lamp comes on.

An oversaturated filter is a fire hazard.



- To take out the grease filters, release the locking clip on the filter, lower the filter 45°, unhook it at the back and remove it.

To avoid damaging the filters or the hob below, make sure you hold the filters securely at all times when handling them.

Cleaning the grease filters by hand

- Clean the filters with a soft nylon brush in a mild solution of hot water and a small amount of washing-up liquid.
  Do not use undiluted washing up liquid.

Do not use:

– cleaning agents containing descaling agents,

– powder cleaners, cream cleaners or abrasive all-purpose cleaning agents,

– oven sprays.

Cleaning the grease filters in the dishwasher

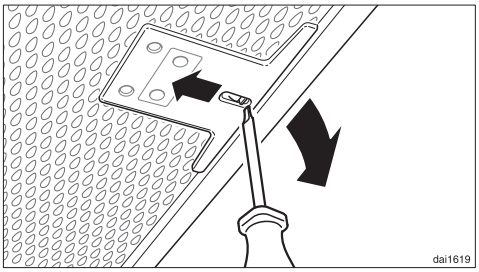
- Place the filters as upright as possible in the lower basket, with the short sides upright, and wash on a 65°C programme, ensuring the spray arm is not obstructed. If a Miele dishwasher is being used, select the Sensor wash programme.
- Use a mild dishwasher detergent.

Depending on the cleaning agent used, cleaning the filters in a dishwasher can cause permanent discolouration to the surface. However, this will not affect the functioning of the filters in any way.

- After cleaning, leave the filters to dry on an absorbent surface before replacing them.

When removing the filters for cleaning, also clean off any residues of oil or fat from the now accessible housing to prevent the risk of these catching fire.

When putting the grease filters back in position, ensure that the locking clips are facing down towards the hob.



If the grease filters are inadvertently replaced upside down, insert a small screwdriver blade into the slits to disengage the clip.

- After replacing the grease filters, press the grease filter control for approximately 3 seconds to reset the operating hours counter.
  The indicator lamp will go out.

If the grease filters are cleaned **before** the operating hours counter has reached its maximum, the grease filter control should be pressed for approximately 6 seconds to reset the counter to zero.

Changing a halogen lamp

■ Before any cleaning or maintenance work, disconnect the cooker hood from the mains supply. Ensure that–

– it is switched off at the isolator, or

– it is switched off at the wall socket and the plug is withdrawn, or

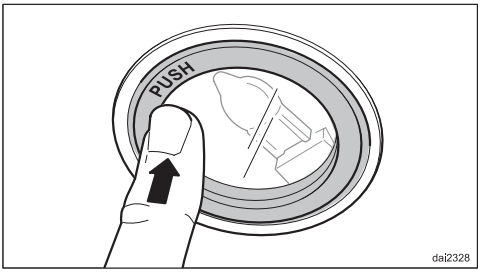
– the fuse from the fused spur connection unit is withdrawn, or

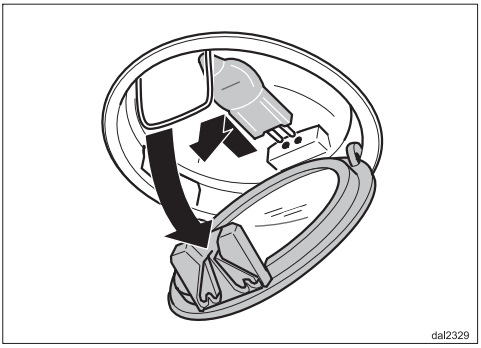
– the mains fuse is disconnected, or

– the screw-out fuse is removed (in countries where this is applicable).

⚠ Exercise caution when changing halogen lamps. They get very hot during use and remain hot for some time after being switched off. Let them cool down before you change them.

Do not touch the surface directly when changing a lamp, as grease particles from your fingers will adhere to the surface and damage it. Please follow the manufacturer's instructions.



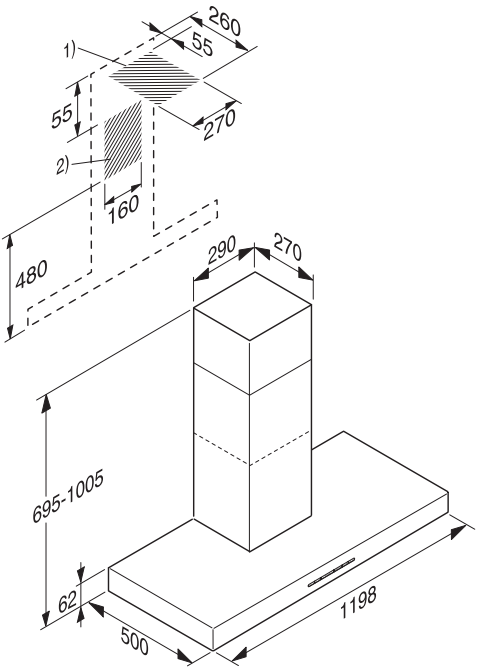


■ To access the halogen lamp, push the lamp cover gently upwards. The cover will open and can be pulled down.

■ Pull the old halogen lamp out of the connection socket and replace it with a new one (20 W, G 4 cap).

■ Push the cover back up and make sure it clicks into place.

Appliance dimensions



The shaded areas 1) and 2) represent the wall or ceiling area for the vent cut-out, for feeding the connection cable through to an external fan and for fitting the connection socket.

Connection for air extraction
∅ 150 mm, or ∅ 125 mm with reducing collar.

Safety distance between hob and cooker hood (S)

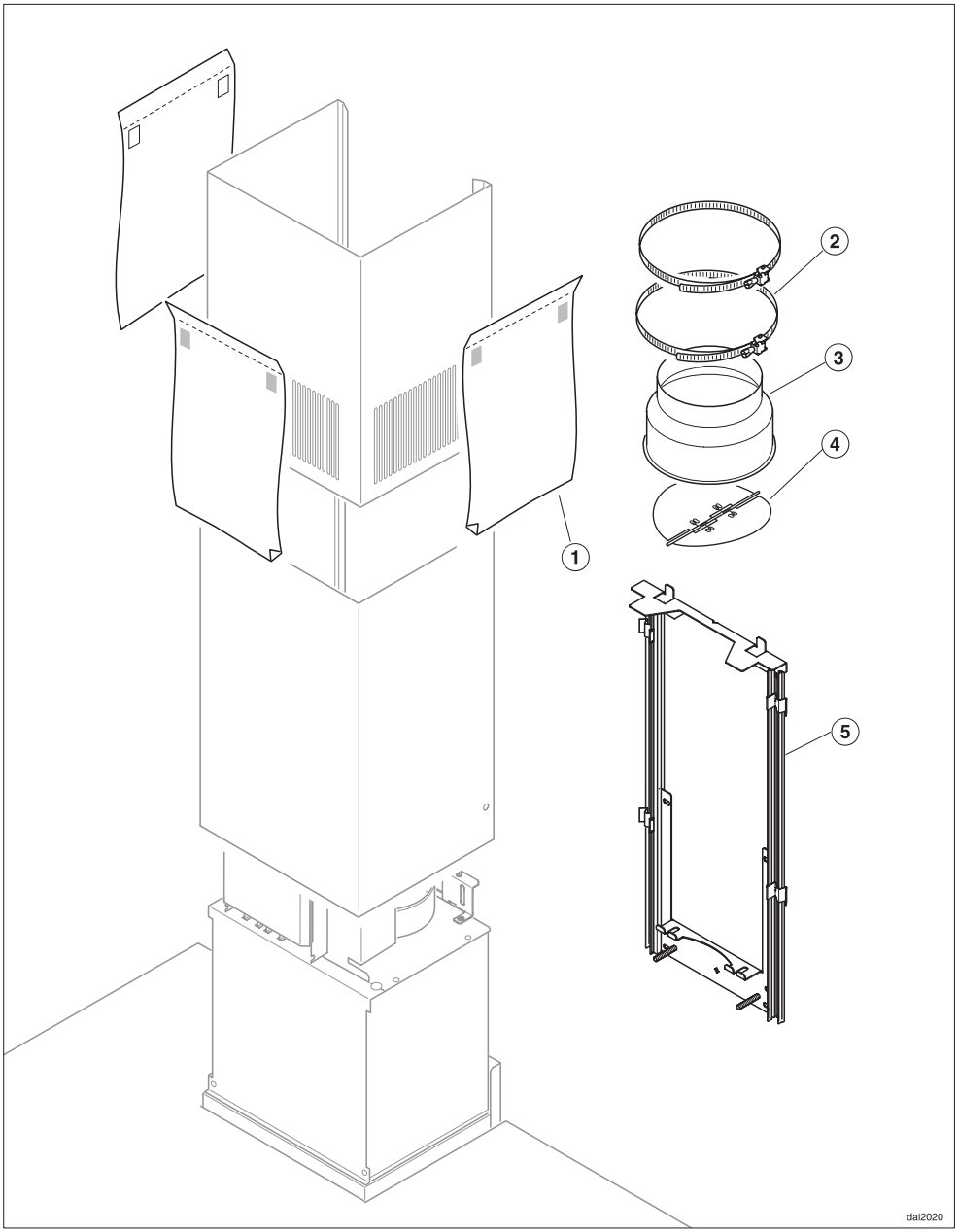
When planning the installation height of your cooker hood, the **minimum** safety distances between the top of a cooker or hob and the bottom of the cooker hood are as follows, unless a greater distance is specified by the manufacturer of your cooking appliance:
450 mm (GB), 600 mm (AU, NZ) above electric hobs and cookers,
650 mm above an open grill or deep fat fryer,
650 mm above gas hobs and cookers.
If this cooker hood is installed above a Miele Wok CS 1028 CombiSet appliance, a minimum safety distance of 760 mm must be maintained between the burner and the lower edge of the cooker hood.

See "Warning and Safety" instructions for further information.

– When deciding on the safety distance between the hob and cooker hood, please note that a distance of 650 mm above electric cookers/hobs may be preferable to give more working space under the hood.
– Account should also be taken of the height of the person who will be using the hood most often. The person should have sufficient space to work comfortably at the hob, and also be able to reach the hood controls with ease.
– If positioned too high, extraction will be inefficient.
– The height of the cooking appliance must be taken into account when planning the installation height of the cooker hood.

Installation

Assembly parts



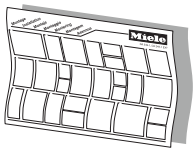
① **3 protective sheets**
for use when fitting the tower.

② **2 hose clips** for securing the exhaust ducting.

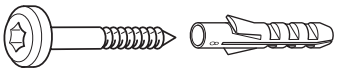
③ **1 reducing collar**
for exhaust ducting ∅ 125 mm.

④ **1 non-return flap**
for fitting into the exhaust connection on the motor unit (not needed for recirculation mode).

⑤ **Telescopic wall bracket**
for securing the cooker hood to the wall.



Installation instructions

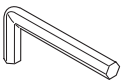


8 screws 5 x 40 mm and
8 x S 8 plugs for securing the wall bracket.

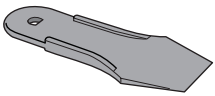
The screws and plugs are designed for use in solid walls only.
For other types of wall construction, alternative fixings will be required.
Make sure that the wall is able to take the weight of the cooker hood.

2 x M 6 self-tapping nuts
for securing the appliance.

2 screws 3.9 x 7.5 mm
for securing the tower.



1 hexagonal (Allen) key
for adjusting the height of the appliance.



1 lever
for dismantling the tower.

Before installation, it is important to read the information given on the following pages as well as the "Appliance dimensions" and the "Warning and Safety instructions" at the beginning of this book.
This is particularly crucial when using the cooker hood at the same time as a heating appliance that relies on air from the same room, as this could result in the build-up of toxic fumes.

Installation instructions

See enclosed Installation sheet for instructions on how to install this appliance.

Protective foil

(on stainless steel appliances)

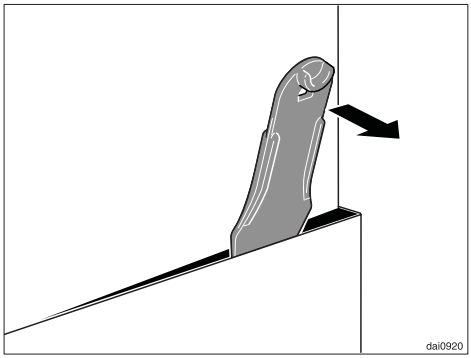
The housing components have protective foil around them to prevent them being damaged during transport.

Please remove this foil before fitting the housing components. It can be peeled off easily.

Dismantling

Should the appliance ever need to be dismantled, follow the installation instructions in reverse order as described on the installation sheet.

A lever is supplied to assist with the removal of the tower.



- After loosening the fixing screws on the tower, push the lever between the tower and the extension piece to lever the tower out of its fixings.

All electrical work should be undertaken by a suitably qualified and competent person in strict accordance with current national and local safety regulations (BS 7671 in the UK).

Installation, repairs and other work by unqualified persons could be dangerous, for which the manufacturer cannot be held liable.

Ensure power is not supplied to the appliance until after installation or repair work has been carried out.

Do not connect the appliance to the mains electricity supply by an extension lead. These do not guarantee the required safety of the appliance.

The connection data is given on the data plate. This is visible when the grease filters have been removed. Ensure that this data matches the household mains supply.

Connection of this appliance should be made via a suitable isolator or a double pole fused spur connection unit which complies with national and local safety regulations and the On-Off switch should be easily accessible after the appliance has been built in.
When switched off there must be an all-pole contact gap of 3 mm in the switch (including switch, fuses and relays according to EN 60335).

If the switch is not accessible after installation (depending on country), an additional means of disconnection must be provided for all poles.

For extra safety it is advisable to protect the appliance with a suitable residual current device (RCD). Contact a qualified electrician for advice.

Important

This appliance is supplied for connection to an a.c. 230 V single phase 50 Hz supply.

The wires in the mains lead are coloured in accordance with the following code:

Green/yellow	= earth
Blue	= neutral
Brown	= live

WARNING:
THIS APPLIANCE MUST BE EARTHED

Operation with Control module DSM 400

The Miele DSM 400 Control module can be used to combine the cooker hood with other components.

It enables the following:

Connection to a window contact switch

If adequate ventilation to the room can only be ensured by having a window open when the cooker hood is in use at the same time as a heating appliance which depends on the air from the same room, then the control module can be used to connect a window contact switch (not supplied) to the appliance.

Once connnected, the cooker hood can only be operated when the window is sufficiently open (see also "Warning and Safety instructions").

When the window is closed the cooker hood fan cannot be switched on. The indicator lamp for the On/Off touch control on the cooker hood will flash.

The same applies to operation with an external motor (depending on model).

The cooker hood lighting is not affected by this.

Take care when ventilating the room through an open window that ventilation is not impaired by a closed blind or curtain.

If the control module is disconnected in order to operate the cooker hood without the window contact switch (e.g. after moving house) the cooker hood electronics must be reset by a Miele service technician.

Potential free connection

This enables an external appliance to be controlled according to the switch setting on the cooker hood fan.

– For instance it can be used to ensure a sufficient supply of fresh air when the cooker hood and a heating appliance which also depends on the air in the room are being used together, by switching on an air intake fan, or opening a motorised inlet flap as soon as the cooker hood fan is switched on. It is important to ensure that the fan power is sufficient and that the air intake has a suitable cross-sectional diameter.

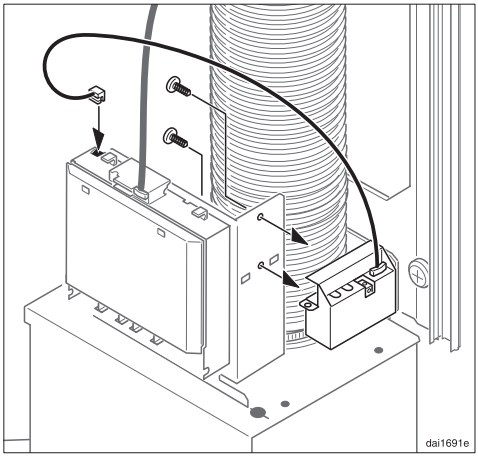
– If a sufficient air intake cannot be guaranteed, then the potential free contact will enable a heating appliance, which depends on air in the same room as a cooker hood, to be switched off when the cooker hood is in operation.

See also "Warning and Safety" instructions.

Connection to a light switch

The control module can be used to switch on the cooker hood lighting and also to dim it, depending on model, via a light switch in the house.

Installation



The tower needs to be removed before the control module can be fitted to the fan unit.

The control module is supplied with its own detailed operating and installation instructions.

Connection for air extraction

Important: To avoid the danger of toxic fumes please observe the Warning and Safety instructions. This is especially crucial when using the cooker hood at the same time as another heating appliance which relies on air from the same room. The cooker hood should be installed according to local and national building regulations. Seek approval from the building inspector where necessary.

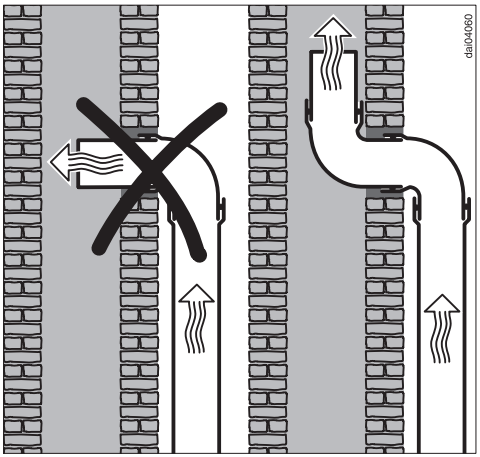
– All ducting, pipework and fittings must be of non-flammable materials.
– The exhaust ducting should be as short and straight as possible.
– To ensure efficient air extraction, the diameter of the exhaust ducting should not be less than 150 mm.

If exhaust ducting with a diameter of less than 150 mm, or if flat ducting is used, the noise level of the cooker hood will increase and extraction will be less efficient.

Only reduce the diameter of the ducting if absolutely necessary, e.g. where narrower ducting has already been installed.

– Only use wide radius bends. Tight bends reduce the air throughput of the cooker hood.
– Only use smooth pipes or flexible hoses made from non-flammable materials for extraction connection.

If the exhaust ducting is secured to the exhaust stub by a hose clip, ensure that it is fitted correctly. Do not overtighten.
Otherwise the exhaust stub could buckle and the non-return flap could become jammed.



– Where ducting is horizontal, it must be laid to slope away at at least 1 cm per metre.

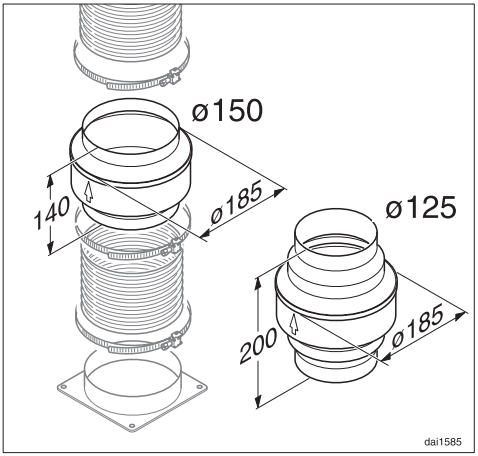
  This is to ensure that condensate cannot drain back into the cooker hood.
– If the exhaust air is to be ducted into the open air, the installation of a telescopic wall vent is recommended.
– If the exhaust air is to be ducted into a vent flue, the ducting must be directed in the flow direction of the flue.

Important:

If the exhaust ducting is to run through rooms, ceiling space etc. where there may be great variations in temperature between the different areas, the problem of condensation will need to be addressed. The exhaust ducting will need to be suitably insulated.

Condensate trap

(optional accessory)

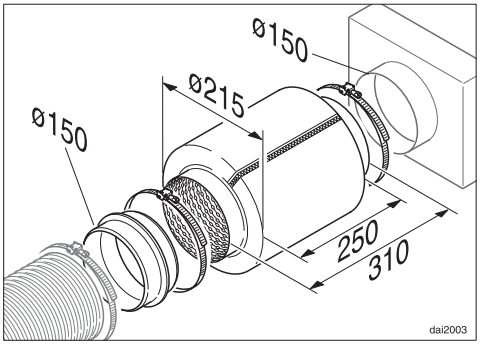


In addition to insulating the exhaust ducting, we recommend that a suitable condensate trap is installed to collect and evaporate any condensate which may occur. Condensate traps are available for ∅ 125 mm or ∅ 150 mm ducting.

When installing a condensate trap, ensure that it is positioned vertically and if possible directly above the exhaust connection. The arrow on the housing indicates the direction of air-flow.

Cooker hoods designed for use with an external motor (...EXT models) have an integrated condensate trap.

Silencer



To achieve even further reductions in noise levels, a special silencer can be fitted in the ducting system.

It can be sited at any suitable position in the ducting system between the cooker hood and the external motor on EXT model cooker hoods.

On extraction models, it can be fitted nearest the ducting outlet to the outside to reduce neighbourhood noise.

On recirculation models, it can be fitted in between the fan and the deflector.

After Sales Service

In the event of a fault which you cannot correct yourself, or if the appliance is under guarantee, please contact:

– Your Miele Dealer / Chartered Agent

or

– The Miele Customer Contact Centre (see back cover for address).

When contacting your Dealer or Miele, please quote the model and serial number of your appliance. These are shown on the data plate which is visible when the grease filter is removed.

For G.B.: Please note that telephone calls may be monitored and recorded for training purposes.

Total connected load* . . . . . 260 W
– Fan motor* . . . . . 200 W
– Hob lighting . . . . . 3 x 20 W

Voltage
UK, NZ, ZA . . . . . AC 230 V
AUS . . . . . AC 240 V

Frequency . . . . . 50 Hz

Fuse rating GB . . . . . 3 A

AUS, NZ:

Plug rating . . . . . 10 A

Test marks . . . . . Electrical safety
. . . . . C-Tick Mark

Electrically suppressed
according to AS/NZS 1044

Electrical cable length . . . . . 1.5 m

Weight
DA 422-4. . . . . 23 kg
DA 422-4 EXT . . . . . 20 kg

Fan performance*

Extraction power according to
EN 61591

Extraction system ∅ 150 mm:
Level I . . . . . 200 m^3/h
Level II. . . . . 300 m^3/h
Level III . . . . . 400 m^3/h
Level IV Intensive Setting . . . . 640 m^3/h

Extraction system ∅ 125 mm:
Level I . . . . . 180 m^3/h
Level II. . . . . 280 m^3/h
Level III . . . . . 380 m^3/h
Level IV Intensive Setting . . . . 580 m^3/h

Unrestricted. . . . . 690 m^3/h

* For EXT models the rated load and extraction power will depend on the type of external motor fitted.

EXT models:
Length of connection cable to external motor. . . . . 1.9 m

United Kingdom
Miele Co. Ltd.
Fairacres, Marcham Road
Abingdon, Oxon, OX14 1TW
Tel: 0845 365 0555
Fax: 0845 365 0777
Customer Contact Centre Tel: 0845 365 6600
E-mail: info@miele.co.uk
Internet: www.miele.co.uk

Australia
Miele Australia Pty. Ltd.
ABN 96 005 635 398
1 Gilbert Park Drive, Knoxfield, VIC 3180
Tel: (03) 9764 7130, Fax: (03) 9764 7149
Internet: www.miele.com.au

China
Miele Shanghai
Suite 4105-06, Plaza 66
1266 Nanjing Road West
Jing An District
Shanghai 200040, PRC
Tel: +86 21 6288 4200, Fax: +86 21 6288 4100
E-mail: mieleshanghai@cn.miele.com
Internet: www.miele.cn

Hong Kong
Miele (Hong Kong) Limited
AIA Plaza, 24th Floor
18 Hysan Avenue
Causeway Bay
Tel: +852- 2610-1331, Fax: +852-2610-1013
E-mail: mielehk@miele.com.hk
Internet: www.miele.hk

India
Miele Appliances India Pvt. Ltd.
Ground Floor, Copia Corporate Suites
Plot No. 9, Jasola
New Delhi – 110025
Tel: 011-46 900 000, Fax: 011-46 900 001
E-mail: customercare@miele.in
Internet: www.miele.in

Ireland
Miele Ireland Ltd.
Broomhill Road, Tallaght, Dublin 24
Tel: (01) 461 0710, Fax: (01) 461 07 97
E-Mail: info@miele.ie
Internet: www.miele.ie

New Zealand
Miele New Zealand Limited
Unit L, 10-20 Sylvia Park Road
Mt. Wellington, 1060, Auckland, NZ
Tel: 0800 264 353, Fax: 0800 463 453
Internet: www.miele.co.nz

Singapore
Miele Southeast Asia
Miele Pte. Ltd.
163 Penang Road
04 - 02/03 Winsland House II
Singapore 238463
Tel: +65 6735 1191, Fax: +65 6735 1161
E-Mail: infosea@miele.com.sg
Internet: www.miele.sg

South Africa
Miele (Pty) Ltd
63 Peter Place, Bryanston 2194
P.O. Box 69434, Bryanston 2021
Tel: +27 (0) 11 548-1900
Fax: +27 (0) 11 548-1935
E-mail: info@miele.co.za
Internet: www.miele.co.za

United Arab Emirates
Miele Appliances Ltd.
P.O. Box 11 47 82
Gold & Diamond Park
Sheikh Zayed Road
Building 6 / Offices Nos. 6-214 to 6-220
Dubai
Tel: +971-4-341 84 44
Fax: +971-4-341 88 52
E-Mail: info@miele.ae
Internet: www.miele.ae

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